

**Simplicity  
is the  
ultimate  
sophistication.**



**Introducing  
Apple II,  
the personal  
computer.**



# Sophisticated design makes it simple.



Apple II will change the way you think about computers. Compared to first generation "hobby" computers, Apple II is easier to use, faster, smaller and more powerful. It brings to personal computing a new level of simplicity through hardware and software sophistication. And Apple II can grow with you as your skill and experience with computers grows.

Sophisticated built-in features such as BASIC, the English-like programming language, advanced color graphics, and use of state-of-the-art high density memory components (16K ROMs and RAMs), set Apple II apart from all the others.

But you don't even need to know a ROM from a RAM to use and enjoy Apple II. Its beauty is in its simplicity. It's a complete, ready to use computer—not a kit. Everything is included. Hook it up to your color TV\* and begin writing your own computer programs the very first evening. Even if you've had no

previous computer experience, you can invent your own color games, create artistic displays, or instruct Apple II to chart your home finances. Conversing with Apple II in BASIC is easy using its familiar typewriter-style keyboard.

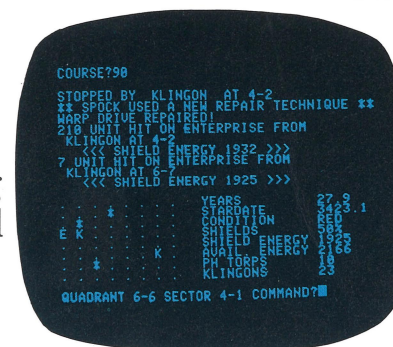
Games have always been one of the most creatively challenging applications for the computer, and Apple II's sophistication shows through in the games it can help you create. Games like PONG or STARTREK. Apple BASIC contains advanced unique commands for using color graphics (COLOR=, PLOT, HLIN, VLIN, SCRN) which means creating dazzling color displays or writing your own

PONG type game becomes something even a beginner can master. Since text can be displayed along with graphics, your program can keep score, give and accept instructions and even comment on your ability as a player. Paddles and joysticks are interfaced easily using the built-in Apple GAME I/O connector. And a special BASIC command (PDL) automatically senses the position of the paddle. That simplifies writing action games. Apple II's built-in speaker sounds when the ball is hit, and when

a point is made or lost. In STARTREK, you'll actually hear the phasers and photon torpedoes.

Apple II will do more than entertain you. Playing with it, you'll begin to learn what a computer is all about and how rewarding it can be. You'll discover that it's easy to program your Apple II to do things like teach your kids arithmetic or spelling. (Yes, it's OK to let your kids use Apple II. It's ruggedly engineered and has a virtually unbreakable plastic case.) And you can save your programs on an ordinary cassette tape using the built-in

cassette interface and your home cassette



recorder. Other sources of programs are the Apple software library and the Apple II owner down the block.

Increased memory can extend your horizons. For instance, with 12K or more memory, Apple II can generate a high-resolution (280h x 192v) graphic display in 4 colors useful for scientific, medical or artistic applications. The user memory can be expanded up to 48K bytes by simply inserting more memory packages in the sockets provided.

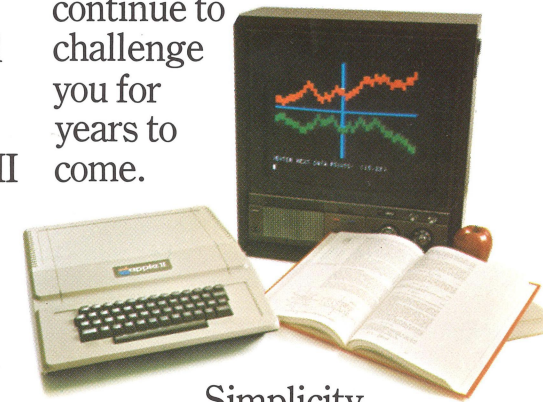
Also, there are several peripheral boards scheduled for introduction soon which will plug into the expansion connectors—Apple II

has eight built-in—enabling you to syn-

thesize music or talk to another computer over the phone. Many more interesting peripheral boards to expand your Apple II will be available this year.

As you become an expert, you'll grow to appreciate the sophistication inside Apple II. Its 2K byte ROM monitor contains a mini-assembler, a disassembler, single-step and trace routines, floating point package, a software-simulated 16-bit processor routine, and more.

Apple II is an advanced personal computer that will continue to challenge you for years to come.



Simplicity.  
Sophistication. Apple II.

 **apple computer inc.**<sup>TM</sup>



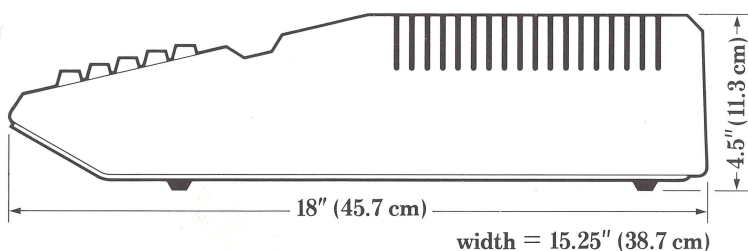
\*Apple II plugs into a TV monitor or hooks up to any standard television using an inexpensive commercially available RF modulator (not supplied).

PONG is a trademark of Atari, Inc.

Copyright 1977 Apple Computer Inc.



# Technical Overview



Apple II is a complete, self-contained, ready to use computer. Standard features include BASIC and Monitor in ROM (8K bytes), Color Graphics, up to 48K bytes RAM (4K included), cassette interface, Apple GAME I/O connector, typewriter-style ASCII keyboard, high-efficiency switching power supply and plastic molded case. Also included as standard are: 1 demonstration cassette tape, two game paddle controllers and detailed operations manual.

## MICROPROCESSOR:

6502 operating at 1 MHz clock.

## VIDEO DISPLAY

The Apple II video display section displays memory as either text, color graphics, or high-resolution graphics (completely transparent memory access). Both graphics modes can be selected to include 4 lines of text at the bottom of the display area. *All display modes are software selectable.* In addition, the user can select under software one of two memory blocks to be displayed.

### Text

- 40 characters/line, 24 lines.
- 5 x 7 upper case characters.
- Normal, inverse or flashing characters.
- Extensive display control software in ROM.
- Full cursor control.
- Fast display — 1000 cps.

### Color Graphics

- 40h x 48v resolution or 40h x 40v with 4 lines text.
- 15 colors — color generated digitally.
- BASIC commands to use graphics easily: COLOR=, PLOT x, y, HLIN, VLIN, SCRN.

### High Resolution Graphics

- 280h x 192v resolution or 280h x 160v with 4 lines text.
- 4 colors — black, white, violet, green.
- Displays 8K bytes (requires 12K minimum RAM).

## MEMORY

RAM is organized into 3 increments. Each increment can be either 4K bytes using 4K chips or 16K bytes using advanced 16K chips. Memory may be easily increased by inserting an additional increment of chips. From 4K to 48K bytes of RAM can be contained on the single board. 8K bytes of ROM are supplied which permanently store Apple BASIC (6K) and a powerful system monitor (2K). Two additional ROM sockets are provided for future Apple software.

- Up to 48K bytes on-board RAM — no peripheral memory boards!
- Unique automatic RAM refresh system, completely transparent.
- Uses 4096, 2104 type 4K and 4116, 2116 type 16K RAMs.
- Fast memory — 350ns access time.

## I/O

Apple II includes as standard an ASCII keyboard, audio cassette interface, 8 peripheral board connectors, speaker, Apple GAME I/O connector and two game paddle controllers.

- Reliable typewriter-style keyboard.
- Fast cassette interface — 1500 bps.
- Peripheral board connectors:
  - fully buffered busses & timing
  - Daisy-chained interrupt and DMA priority structure
- GAME I/O — 4 paddle inputs, 3 TTL inputs and 4 TTL outputs.

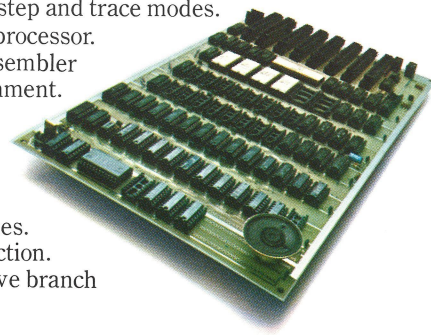
## BASIC

Apple BASIC is an integer BASIC supplied in 6K bytes of ROM and includes the following features (in addition to normal basic features):

- Apple BASIC is a fast translated BASIC.
- Any length variable names (ALPHA, BETA\$).
- Syntax and range errors indicated immediately when entered.
- Multiple statements on one line.
- Integers from -32767 to +32767.
- String arrays to 255 characters. Single dimension integer arrays.
- Graphics Commands: COLOR=expr, PLOT, HLIN (draw horizontal line), VLIN, SCRN (x, y) (reads the screen color).
- Paddle read function: PDL (0-3).
- TEXT and Graphics Commands set display mode from BASIC.
- Immediate execution of most statements.
- Memory boundary adjust (does not destroy current program).
- Break and Continue program execution.
- Debug commands: line number trace and variable trace.
- Switchable I/O device assignments.
- Direct memory access: PEEK, POKE, CALL commands.
- Cassette SAVE and LOAD commands.
- Auto line number mode.
- RND, SGN, ASC, LEN and ABS functions.
- POP instruction pops the return stack one level.
- GOTO expr, GOSUB expr allowed.

## MONITOR

- 2K byte ROM monitor.
- Screen control (intelligent display routines). Full cursor control.
- Scrolling window adjustable (protected screen feature).
- Software simulated single-step and trace modes.
- Software simulated 16-bit processor.
- Dis-assembler and mini-assembler
- Input/Output device assignment.
- Editing on keyboard entry.
- Floating point package.
- Breakpoint handling.
- Register examine/modify.
- Read/Write cassette routines.
- Inverse/Normal video selection.
- Hex add/subtract for relative branch calculations.



**apple computer inc.™**

10260 Bandle Drive, Cupertino, California 95014, (408) 996-1010

**APPLE II™ SYSTEMS**

Apple II is a completely assembled and tested computer system. The system includes a rugged molded case, typewriter-style keyboard with N-key rollover, high-efficiency switching power supply, ROM-resident BASIC interpreter, monitor, assembler and disassembler; two game paddles, demonstration programs on tape cassettes, AC power cord, cassette cable and reference manual.

System Memory Size <sup>(3)</sup>	Model No.	Retail Price
4K Bytes RAM	A2S0004X <sup>(1)</sup> .....	\$ 995.00
8K Bytes RAM	A2S0008X <sup>(1)</sup> .....	1095.00
16K Bytes RAM	A2S0016X <sup>(1)</sup> .....	1445.00
32K Bytes RAM	A2S0032X <sup>(1)</sup> .....	1895.00
48K Bytes RAM	A2S0048X <sup>(1)</sup> .....	2345.00

**APPLE II™ SINGLE-BOARD COMPUTERS**

Apple II boards are fully assembled and tested. The boards include ROM-resident BASIC interpreter, monitor, assembler and disassembler; and a reference manual.

Board Memory Size <sup>(3)</sup>	Model No.	Retail Price
4K Bytes RAM	A2B0004X <sup>(1)</sup> .....	\$ 645.00
8K Bytes RAM	A2B0008X <sup>(1)</sup> .....	745.00
16K Bytes RAM	A2B0016X <sup>(1)</sup> .....	1095.00
32K Bytes RAM	A2B0032X <sup>(1)</sup> .....	1545.00
48K Bytes RAM	A2B0048X <sup>(1)</sup> .....	1995.00

MEMORY	Model No.	Retail Price
Add-In Memory—4K Bytes (4K RAMs)	A2C0004X <sup>(1)</sup> .....	\$100.00
Add-In Memory—16K Bytes (16K RAMs)	A2C0016X <sup>(1)</sup> .....	500.00
Memory Configuration Blocks (Set of 3)		
4K, 4K, 4K	A2C0020X <sup>(1)</sup> .....	10.00
16K, 4K, 4K	A2C0022X <sup>(1)</sup> .....	10.00
16K, 16K, 16K	A2C0024X <sup>(1)</sup> .....	10.00



	Model No.	Retail Price
<b>ACCESSORIES</b>		
Switching Power Supply	A2M0001X .....	279.50
Keyboard Assembly	A2M0002X .....	149.50
A.C. Power Cord	A2C0003X <sup>(1)</sup> .....	5.00
Cassette Recorder Interface Cable	A2C0005X <sup>(1)</sup> .....	4.50
Game Controls—Two Players	A2M0007X <sup>(1)</sup> .....	25.00
Vinyl Carrying Case	A2M0009X .....	30.00
<b>LITERATURE</b>		
Apple II Reference Manual	A2L0001X <sup>(2)</sup> .....	10.00
6502 Hardware Manual	A2L0002X <sup>(1)</sup> .....	15.00
6502 Software Manual	A2L0003X <sup>(1)</sup> .....	15.00
Applesoft Reference Manual	A2L0004X <sup>(2)</sup> .....	7.50
<b>INTERFACE CARDS &amp; PERIPHERALS</b>		
Prototyping/Hobby Card	A2B0001X .....	24.00
Parallel Printer Interface Card	A2B0002X <sup>(2)</sup> .....	180.00
Communications Interface Card	A2B0003X <sup>(4)</sup> .....	180.00
<b>TAPES</b>		
Blank Cassettes	A2T0000X <sup>(2)</sup> .....	3.50
Checkbook	A2T0001X .....	20.00
Startrek	A2T0002X .....	10.00

**NOTES:**

1. Change in price from last Price List
2. New product introduction
3. System memory sizes other than those shown should be made up by the dealer using Apple-supplied add-in memory increments
4. Available approximately April 1
5. All prices subject to change without notice



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## ALABAMA

Computer Center Inc.  
 433 Valley Ave. Plaza  
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 (205) 942-8567

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 Huntsville 35805  
 (205) 539-1200

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 Anchorage 99503  
 (907) 272-4823

Team Electronics #138  
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 Anchorage 99503  
 (907) 276-2923

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 (907) 456-4157

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 (602) 942-7300

Byte Shop  
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 Tempe 85257  
 (602) 894-1129

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 2612 E. Broadway  
 Tucson 85616  
 (602) 327-4576

Hassler's Home Entertainment Center  
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 Phoenix 85016  
 (602) 277-5711

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(612) 227-7223

Team Electronics  
2100 N. Snelling Ave.  
St. Paul 55113  
(612) 636-5147

Team Electronics #66  
350 Rosedale Ctr.  
Roseville 55113  
(612) 636-5147

Team Electronics #44  
3000 White Bear Ave.  
Maplewood 55109  
(612) 777-3737

Team Electronics #5  
6413 Lyndale Ave. S.  
Minneapolis 55423  
(612) 869-3288

Team Electronics #13  
Apache Plaza Silver Lk. Rd.  
St. Anthony 55421  
(612) 789-4368

Team Electronics #50  
1311 4th St. S.E.  
Minneapolis 55414  
(612) 378-1185

Team Electronics #121  
Thunderbird Mall  
Virginia 55792  
(218) 741-5919

Team Electronics #148  
1032 Burnsville Ctr.  
Burnsville 55337  
(612) 435-7128

Team Electronics #125  
Mesabi Mall  
Hibbing 55746  
(218) 263-8200

Team Electronics #24  
310 Grant Ave.  
Evelenth 55734  
(218) 748-8140

Team Electronics #95  
204 Southdale Ctr.  
Edina 55435  
(612) 920-4817

Team Electronics #133  
Cedar Mall  
Owatonna 55060  
(507) 451-7248

Team Electronics #147  
207 3rd St.  
Bemidji 56601  
(218) 751-7880

Team Electronics #131  
Crossroads Shpg. Ctr.  
St. Cloud 56301  
(612) 253-8326

Team Electronics #25  
Kandi Mall South Hwy. 71  
Willmar 56201  
(612) 235-2120

Team Electronics #23  
Madison East  
Mankato 56001  
(507) 387-7937

## MISSOURI

Electronic Components  
1306-B South Hwy. 63  
Columbia 65201  
(314) 443-5225

Team Electronics #89  
301 Stadium Blvd.  
Columbia 65201  
(314) 445-4496

## MONTANA

Computers Made Easy  
415 Morrow  
Bozeman 59715  
(406) 586-3065

Team Electronics #35  
613 Central Ave. Box 2154  
Great Falls 59401  
(406) 453-3246

Team Electronics #37  
1208 W. Kent  
Missoula 59801  
(406) 549-4119

## NEBRASKA

Team Electronics #34  
12100 W. Center  
Omaha 68114  
(402) 393-3100

Team Electronics #28  
304 S. 72nd St.  
Omaha 68114  
(402) 397-1666

Team Electronics #137  
148 Conestoga Mall  
Hwy. 281&131  
Grand Island 68801  
(308) 381-0559

Team Electronics #140  
Sunset Plaza Shpg. Ctr.  
Norfolk 68701  
(402) 379-1161

Team Electronics #27  
2055 O St.  
Lincoln 68510  
(402) 435-2959

Team Electronics #149  
Mall 1000 S. Dewey  
North Platte 69101  
(308) 534-4645

## NEW HAMPSHIRE

Computer Mart  
170 Main  
Nashua 03060  
(603) 883-2386

Computerland  
419 Amherst St.  
Nashua 03060  
(603) 889-5238

Lafayette Radio  
777 So. Willow St.  
Manchester 03103  
(603) 668-4400

Lafayette Radio  
31-1/2 So. Main St.  
Concord 03301  
(603) 225-3313

## NEW JERSEY

Computerland  
2 Dehart  
Morristown 07906  
(201) 539-4077

Computer Mart of NJ  
501 Route 27  
Iselin 08830  
(201) 283-0600

Typetronic Computer Store  
806 Route 17  
Ramsey, N.J. 07446  
(201) 825-7770

## NEVADA

Byte Shop  
4104 Kietzke  
Reno 89504  
(702) 826-8080

## NEW YORK

Co-op Electronics  
9148 Main  
Clarence 14031  
(716) 634-2193



Computer Mart of NY  
118 Madison Ave.  
New York 10016  
(212) 686-7923

Computer Factory  
790 Madison Ave.  
New York 10021  
(212) 249-1666

Computer Tree  
409 Hopper Rd.  
Endwell 13760  
(607) 748-1223

Video World  
2716 Erie Blvd. E.  
Syracuse 13224  
(315) 446-5357

Computerland  
225 Elmira Rd.  
Ithaca 14850  
(607) 277-4888

Computerland  
1612 Niagara Falls Blvd.  
Buffalo 14150  
(716) 836-6511

#### NORTH CAROLINA

Byte Shop  
1213 Hillsborough St.  
Raleigh 27606  
(919) 833-0210

Computer Room  
1729 Garden Terrace  
Charlotte 28201  
(704) 377-9821

Roms and Rams  
Crabtree Valley Mall  
Raleigh 27612  
(919) 781-0003

#### NORTH DAKOTA

Team Electronics #146  
109 Main St.  
Williston 58801  
(701) 572-7631

Team Electronics #32  
209 11th S.W. Box 536  
Minot 58701  
(701) 852-3281

Team Electronics #30  
2304 E. Broadway Box 1512  
Bismark 58501  
(701) 223-4546

Team Electronics #26  
1503 11th Ave. Box 1277  
Grand Forks 58201  
(701) 746-4474

Team Electronics #81  
West Acres Shpg. Ctr.  
 Fargo 58102  
(701) 282-4562

#### OHIO

Electronic Problems Co.  
829 Wright Blvd.  
Akron 44312  
(216) 628-2806

Computerland  
1288 Som Center Rd.  
Mayfield Hgts. 44124  
(216) 461-1200

21st Century Shop  
16 Convention Way  
Cincinnati 45201  
(513) 651-2111

Data Domain  
1932 Brown St.  
Dayton 45409  
(513) 223-2348

Data Domain  
7694 Camargo Rd.  
Cincinnati 45243  
(513) 561-6733

Graham Electronics Supply Inc.  
239 Northland Blvd.  
Cincinnati 45246  
(513) 772-1661

#### OKLAHOMA

Bits Bytes and Micros  
2918 N. Mac Arthur Blvd.  
Oklahoma City 73127  
(405) 947-5646

High Technology  
1020 W. Wilshire Blvd.  
Oklahoma City 73116  
(405) 843-9667

High Technology  
2601-D S. Memorial  
Tulsa 74129  
(918) 664-9754

Team Electronics #86  
1867 Penn. Sq.  
Oklahoma City 73118  
(405) 848-5573

High Technology  
1102 D Avenue  
Lawton 73501  
(405) 353-4497

Team Electronics #111  
1134 Hall of Fame Ave.  
Stillwater 74074  
(405) 377-2050

Team Electronics #115  
7000 Crossroads SP 2010  
Oklahoma City 73149  
(405) 634-3357

Team Electronics #77  
5305 E. 41 St.  
Tulsa 74135  
(918) 683-4575

Team Electronics #144  
7021 S. Memorial  
Woodland Hills Mall  
Tulsa 74133  
(918) 252-5751

Team Electronics #108  
1105 Elm St.-Stubbeman Vlg.  
Norman 73069  
(405) 329-3456

#### OREGON

Team Electronics #150  
1913 N.E. Third St.  
Bend 97701  
(503) 389-8525

Team Electronics #151  
1023 S.W. First  
Canby 97013  
(503) 266-2539

Team Electronics #129  
2230 Fairground Rd. N.E.  
Salem 97303  
(503) 364-3278

#### PENNSYLVANIA

Computermart  
550 De Kalb Pike  
King of Prussia 19406  
(215) 265-2580

Lectro-Media  
22 Newmarket  
Philadelphia 19106  
(215) 925-9090

#### SOUTH DAKOTA

Team Electronics #40  
1101 Omaha St.  
Rapid City 57701  
(605) 343-8363

Team Electronics #130  
402 W. Sioux Ave.  
Pierre 57501  
(605) 224-1881

Team Electronics #19  
223 9th Ave. S.E.  
Watertown 57201  
(605) 886-4725

Team Electronics #98  
41st & Western Ave.  
Sioux Falls 57105  
(605) 339-1421

Team Electronics #132  
4001 W. 41st St.  
Sioux Falls 57106  
(605) 339-2237

Team Electronics #11  
613 W. 41st St.  
Sioux Falls 57105  
(605) 336-3730

#### TEXAS

Compu Shop Dist.  
13933 N. Central  
Dallas 75243  
(214) 234-3412

Byte Shop  
1474 W. Spring Valley Rd.  
Richardson 75080  
(214) 234-5955

Computer Solutions  
9200 Broadway Ste. 124A  
San Antonio 78217  
(512) 828-1455

Computer Craft  
3211 Fondren  
Houston 77063  
(713) 977-0664

The Computer Shop  
6812 San Pedro  
San Antonio 78216  
(512) 828-0553

Compu Shop  
13933 N. Central  
Dallas 75243  
(214) 234-3412

Microcomputer Shoppe  
5301 Everhart SP H  
Corpus Christi 78411  
(512) 855-4516

Computerland  
6439 Westheimer  
Houston 77057  
(713) 977-0909

Computer Terminal  
2101 Myrtle  
El Paso 79901  
(915) 532-1777

Computerland  
3300 Anderson Ln.  
Austin 78757  
(512) 452-5701

KA Computer Store  
1200 Majesty Dr.  
Dallas 75247  
(214) 634-7870

Mr. Computer  
744 FM-1960 West-Ste. E  
Houston 77090  
(713) 444-7419

Computer Mart of W. Texas  
3506 D Ave. Q  
Lubbock 79412  
(806) 765-7134

Concho Communications  
3102 Knickerbocker Rd.  
San Angelo 76901  
(915) 949-8365

Computer Mart of W. Texas  
3506-D Ave. Q  
Lubbock 79412  
(806) 765-7134

#### UTAH

Tri Power Electronics  
4190 S. State  
Salt Lake City 84107  
(801) 262-7494

#### VIRGINIA

Computer Hardware Store  
818 Franklin  
Alexandria 22314  
(703) 548-8085

Home Computer Center  
2927 Virginia Beach Blvd.  
Virginia Beach 23452  
(804) 340-1977

Home Computer Center  
12588 Warwick Blvd.  
Newport News 23607  
(804) 595-1955

#### WASHINGTON

Omega Stereo  
5421 196th St. S.E.  
Lynwood 98036  
(206) 775-7585

Omega Stereo  
839 106th Ave. N.E.  
Bellevue 98004  
(206) 455-1138

Omega Stereo  
1032 65th N.E.  
Seattle 98115  
(206) 522-0220

Team Electronics #127  
423 W. Yakima  
Yakima 98902  
(509) 453-0313

Computerland  
1500 S. 336th St.-Pkwy. Ctr.  
Federal Wy. 98003  
(206) 838-9363

Ye Olde Computer Shoppe Inc.  
1301 George Washington Way  
Richland 99352  
(509) 946-3330

Empire Electronics Supply  
616 S.W. 152nd Street  
Seattle 98166  
(206) 244-5200

#### WASHINGTON D.C.

Georgetown Computer  
3286 M St. N.W.  
Washington 20007  
(202) 337-6545

#### WISCONSIN

Team Electronics #76  
396 Park Plaza Ave.  
Oshkosh 54901  
(414) 233-7050

Team Electronics #6  
2321 E. Clairemont Pkwy.  
Eau Claire 54701  
(715) 834-1288

Team Electronics #145  
3209 Rudolph Rd.  
Eau Claire 54701  
(715) 834-0328

Team Electronics #17  
1505 Losey Blvd. S.  
Lacrosse 54601  
(608) 788-2250

Team Electronics #128  
Sunrise Plaza Hwy. 8 East  
Rhinelander 54501  
(715) 369-3900

Team Electronics #18  
2207 Grand Ave.  
Wausau 54401  
(715) 842-3364

Team Electronics #39  
1801 Marshall St.  
Manitowoc 54220  
(414) 684-3393

Team Electronics #65  
3347 Kohler Ave. SP H-4-Mem. Ma.  
Sheboygan 53081  
(414) 458-8791

Team Electronics #8  
3365 E. Washington Ave.  
Madison 53704  
(608) 244-1339

Team Electronics #88  
2619 Milton Ave.  
Janesville 53545  
(608) 756-3150

Team Electronics #55  
3701 Durand Ave.-Elmwood Plz. Ct.  
Racine 53405  
(414) 554-8505

Team Electronics #97  
7700 W. Browndeer Rd.  
Milwaukee 53223  
(414) 354-4880

Team Electronics #75  
3301-3500 S. 27th St.-Southgate  
Milwaukee 53215  
(414) 672-7600

Team Electronics #68  
5300 S. 76th  
Greendale 53129  
(414) 421-4300

Team Electronics #15  
7512 W. Appleton Ave.  
Milwaukee 53126  
(414) 461-7800

#### WYOMING

Team Electronics #152  
Cole Shpg. Ctr. #432  
Cheyenne 82001  
(307) 635-2836

Team Electronics #126  
207 S. Montana  
Casper 82601  
(307) 235-6691

D.D. Camera Corral  
60 Broadway  
Jackson  
(307) 733-3831

#### CANADA

Futur Byte Computers  
1191 Phillips Sq.  
Montreal-Canada H3P 2Z1  
(514) 861-3120

The Computermart  
1543 Bayview Ave.  
Toronto Ont. Can. M4G 3B5  
(416) 488-9708

#### JAPAN

ESD Labs  
6-8-10 Hongo Bunkyo  
Tokyo Japan



